

## PATENT COOPERATION TREATY

10/530088  
Rec'd PCT/PTO 01 APR 2005From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:  
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**PCT**NOTIFICATION OF TRANSMITTAL OF  
INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing  
(day/month/year)

09 FEB 2005

Applicant's or agent's file reference

G25-080

**IMPORTANT NOTIFICATION**

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/US03/39029

08 December 2003 (08.12.2003)

09 December 2002 (09.12.2002)

Applicant

THE UNIVERSITY OF GEORGE RESEARCH FOUNDATON, INC.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.
4. **REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/ US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Sreeni Padmanabhan

Telephone No. 571.272.1600

Form PCT/IPEA/416 (July 1992)

RECEIVED

FEB 14 2005

COLEMAN SUDOL SPAONE, P.C.

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>G25-080</b>	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/US03/39029</b>	International filing date (day/month/year) <b>08 December 2003 (08.12.2003)</b>	Priority date (day/month/year) <b>09 December 2002 (09.12.2002)</b>
International Patent Classification (IPC) or national classification and IPC <b>IPC(7): A61K 31/70, 31/65, 31/52, 31/505 and US Cl.: 514/50, 152, 262, 274</b>		
Applicant <b>THE UNIVERSITY OF GEORGE RESEARCH FOUNDATON, INC.</b>		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <b>5</b> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>    </u> sheets.</p> <p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input checked="" type="checkbox"/> Non-establishment of report with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>		
Date of submission of the demand <b>12 March 2004 (12.03.2004)</b>	Date of completion of this report <b>06 January 2005 (06.01.2005)</b>	
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer <b>S. JIANG</b> Sreeni Padmanabhan Telephone No. 571.272.1600	

Form PCT/IPEA/409 (cover sheet)(July 1998)

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/39029

## I. Basis of the report

## 1. With regard to the elements of the international application:\*



the international application as originally filed.



the description:

pages 1-21 as originally filed

pages NONE, filed with the demand

pages NONE, filed with the letter of \_\_\_\_\_



the claims:

pages 22-28 as originally filed

pages NONE, as amended (together with any statement) under Article 19

pages NONE, filed with the demand

pages NONE, filed with the letter of \_\_\_\_\_



the drawings:

pages NONE, as originally filed

pages NONE, filed with the demand

pages NONE, filed with the letter of \_\_\_\_\_



the sequence listing part of the description:

pages NONE as originally filed

pages NONE, filed with the demand

pages NONE, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:



the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).



the language of publication of the international application (under Rule 48.3(b)).



the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:



contained in the international application in printed form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

the description, pages NONE



the claims, Nos. NONE



the drawings, sheets/fig NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/39029

**III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability**

1. The question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of:

☐ the entire international application,

☒ claims Nos. 6-10, 18, 19, and 20

because:

☐ the said international application, or the said claim Nos. \_\_\_\_ relate to the following subject matter which does not require international preliminary examination (*specify*):

☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 6-10 and 18-20 are so unclear that no meaningful opinion could be formed (*specify*):

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

☐ the claims, or said claims Nos. \_\_\_\_ are so inadequately supported by the description that no meaningful opinion could be formed.

☐ no international search report has been established for said claims Nos. \_\_\_\_

2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:

☐ the written form has not been furnished or does not comply with the standard.

☐ the computer readable form has not been furnished or does not comply with the standard.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
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## V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. STATEMENT

Novelty (N)	Claims <u>5, 12-17, 20, 21, 23-29, 35-40</u>	YES
	Claims <u>1-4, 30-34, 41-44</u>	NO
Inventive Step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-5, 12-17, 20-21, 23-44</u>	NO
Industrial Applicability (IA)	Claims <u>1-5, 12-17, 20-21, 23-44</u>	YES
	Claims <u>NONE</u>	NO

## 2. CITATIONS AND EXPLANATIONS

Claims 1-4, 30-34, 41-44 do not meet the criteria of PCT Article 33(2) and 33(3) because the prior art cited US 5,270,315 in the International Search Report discloses the employment of the instant compounds in methods for treating virus such as HIV.

Claims 1-5, 12-17, 20-21, 23-44 lack an inventive step under PCT Article 33(3) as being obvious over US 5,270,315, US 5,047,407, and Chu et al.

US 5,270,315 discloses the employment of the instant compounds in methods for treating virus such as HIV.

US 5,047,407 discloses that the compounds which are substantially structurally similar to the instant compounds, are useful in pharmaceutical compositions and methods in methods for treating virus such as HIV.

Chu et al. discloses that the compounds which are substantially structurally similar to the instant compounds, are useful in pharmaceutical compositions and methods in methods for treating virus such as HIV.

Claims 1-5, 12-17, 20-21, 23-44 meet the criteria of PCT Article 33(4) because the claimed methods for treating HIV infection in a patient have industrial applicability in the pharmaceutical art.

----- NEW CITATIONS -----